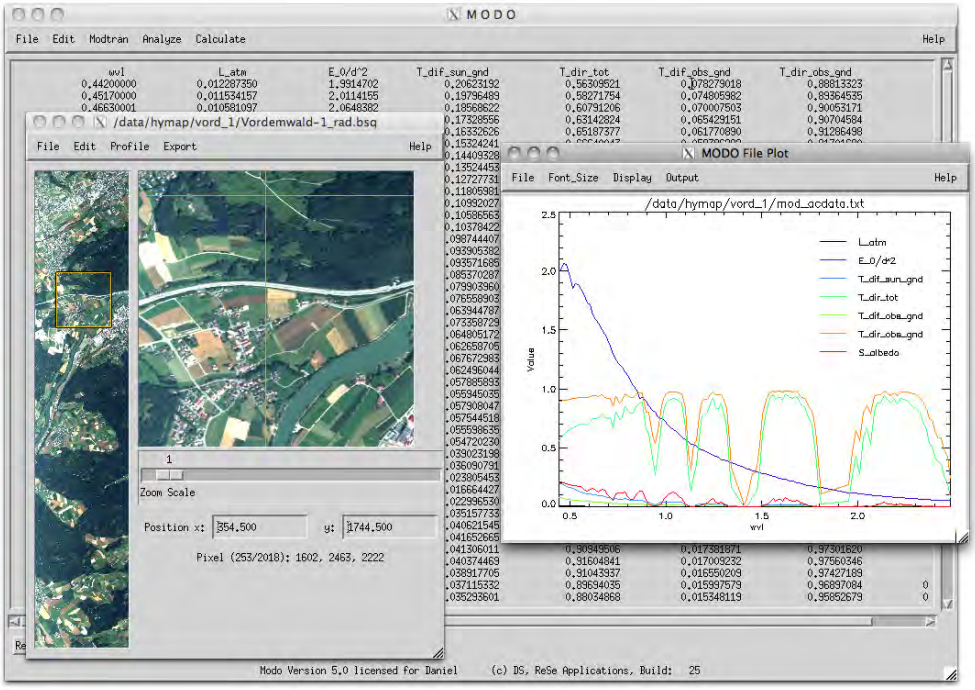
MODO - Version 5.0

Modtran® 5 for Remote Sensing Research

Scientific Tool

used to...

analyse signatures at various sensor systems,
design hyperspectral instruments,
calibrate and **validate** operational sensors,
propagate surface reflectance signatures,
learn about radiative transfer, and
investigate atmospheric gases and aerosols.



Features

- graphical interface to the original MODTRAN®5 software as developed by SSI/AFGL,
- direct call of MODTRAN®5 for Windows and UNIX/Linux/MacOSX,
- import/export of MODTRAN®5 tape5 control files,
- import/export of reflectance reference spectra,
- support for ENVI™ spectral libraries,
- optionally includes original executable code and full license of MODTRAN®5 v2r11,
- extraction of radiance/transmittance/solar flux components from original MODTRAN®5 output,
- plotting of standard MODTRAN®5 outputs (tape7 / flux),
- direct at-sensor radiance simulation for remote sensing systems,
- broad collection of sensor response functions for airborne and spaceborne optical and thermal instruments,
- sensitivity analysis by series of critical parameters,
- helper functions for visibility determination and solar angles calculation,
- simple atmospheric correction (SACO) module for ENVI™ formatted imagery,
- ENVI™ file display and extraction of spectra, and
- complete, linked documentation.

Ease of Use

MODO provides access to the MODTRAN®5 radiative transfer code through a graphical interface. It has been designed for use by the remote sensing specialists. Morevover, it is also well suited for generic applications of MODTRAN®5 and for educational purposes.

Technical Requirements

- IDL 6.2 and higher or the free IDL Virtual Machine (available from ITT Corp.),
- 1.7GB for MODTRAN®5 installation,
- Windows XP or higher (32/64bit), Solaris, Linux (x86), or MacOSX.

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